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- (71) Applicant (for all designated States except US): DE-GUSSA AG [DE/DE]; Bennigsenplatz 1, 40474 Düsseldorf (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SCHUMACHER, Kai [DE/DE]; Berliner Strasse 16, 65719 Hofheim (DE). BATZ-SOHN, Christoph [DE/DE]; Riedstrasse 10a, 63454 Hanau (DE). HASENZAHL, Steffen [DE/DE]; Hochstädter Landstrasse 113, 63454 Hanau (DE).
- (74) Common Representative: DEGUSSA AG; IPM Patente und Marken, Standort Hanau, Postfach 13 45, 63403 Hanau (DE).

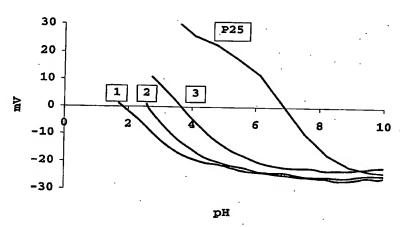
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(54) Title: TITANIUM DIOXIDE COATED WITH SILICON DIOXIDE



(57) Abstract: Powder consisting of particles with a core of titanium dioxide and a coating of silicon dioxide, which powder has a content of silicon dioxide of between 0.5 and 40 wt.%, a BET surface of between 5 and 300 m²/g, and which consists of primary particles that have a coating of silicon dioxide and a core of titanium dioxide. The powder is produced according to a process in which a vaporisable silicon compound and a vaporisable titanium compound are mixed corresponding to the subsequently desired ratio of SiO2 and TiO2 in the product, are vaporised at temperatures of 200°C or less, and conveyed by means of an inert gas stream together with hydrogen and air or with oxygen-enriched air to the central pipe (core) of a known burner, the reaction mixture is ignited at the mouth of the burner and introduced together with secondary air, is combusted in a cooled flame pipe, following which the titanium dioxide powder coated with silicon dioxide is separated from the gaseous reaction products and if necessary is freed in moist air from adhering hydrogen chloride, the ratio of primary air to secondary air being greater than 0.3, the ratio of core hydrogen to secondary air being greater than 1, and the ratio of titanium dioxide precursor to secondary air being greater than 0.5. Sunscreen agent containing the powder in an amount of between 0.01 and 25 wt.%.



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